

Earthquakes ▪ *Guided Reading and Study*

Earthquakes and Seismic Waves *(continued)*

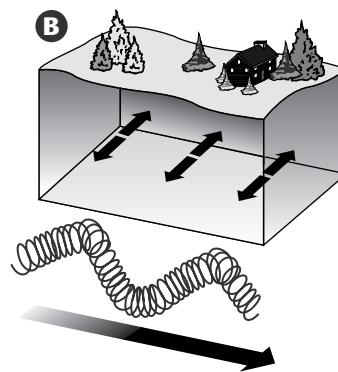
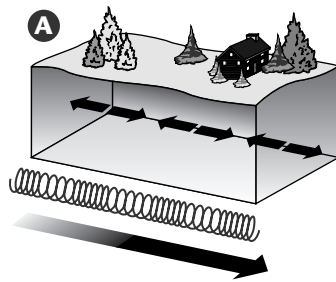
4. Is the following sentence true or false? Seismic waves carry the energy of an earthquake away from the focus in all directions.

_____.

5. Circle the letter of each term that is a category of seismic wave.

- a. P wave
- b. S wave
- c. surface wave
- d. underground wave

6. Label each drawing as *S Waves* or *P Waves*.



7. Is the following sentence true or false? Surface waves move more quickly than P waves and S waves. _____

Type of Wave

_____ 8. P wave

_____ 9. S wave

_____ 10. Surface wave

Effect

a. shakes buildings from side to side

b. shakes buildings violently

c. causes buildings to contract and expand

11. A device that records the ground movements caused by seismic waves is a(n) _____.

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Measuring Earthquakes

12. List the three scales that are used for measuring earthquakes.

a. _____

b. _____

c. _____

13. In your own words, write a definition of each earthquake scale.

a. _____

b. _____

c. _____

Locating the Epicenter

14. Is the following sentence true or false? The closer an earthquake, the greater the time between the arrival of P waves and the arrival of S waves. _____

15. Geologists use circles to find the epicenter of an earthquake.

a. What does the center of each circle represent? _____

b. What does the radius of each circle represent? _____
